

CLAIMS

What is claimed is:

1 1. A method for digital watermarking, the method comprising:
2 utilizing a data stream to configure operations of an adaptive computing engine; and
3 embedding dynamic watermarking data within the data stream to provide identifying
4 indicia for the adaptive computing engine.

1 2. The method of claim 1 wherein embedding further comprises adding the dynamic
2 watermarking when the data stream is created by a compiler.

1 3. The method of claim 1 wherein embedding further comprises adding the dynamic
2 watermarking data when the data stream is received in memory.

1 4. The method of claim 1 wherein embedding further comprises adding the dynamic
2 watermarking data while the data stream is transported from memory to the adaptive
3 computing engine.

1 5. The method of claim 1 wherein embedding further comprises adding the dynamic
2 watermarking data when the data stream is executing as the adaptive computing engine.

1 6. The method of claim 1 wherein utilizing a data stream further comprises
2 configuring a hardware state machine within the adaptive computing engine to extract and
3 process the dynamic watermarking data.

1 7. The method of claim 6 wherein processing the dynamic watermarking data further
2 comprises controlling access to the adaptive computing engine.

1 8. The method of claim 7 wherein processing the dynamic watermarking data further
2 comprises logging statistics of the adaptive computing engine.

1 9. The method of claim 8 wherein processing the dynamic watermarking data further
2 comprises performing events.

1 10. The method of claim 9 determining a number of times access to the adaptive
2 computing engine is allowed, tracking a number of times the adaptive computing engine is
3 accessed, and ending access with the number of times has been exhausted.

1 11. The method of claim 10 initiating acquisition of additional fee payment for
2 continued utilization of the adaptive computing engine.

1 12. A system for digital watermarking, the system comprising:
2 an adaptive computing engine (ACE); and
3 a data stream for configuring operations in the ACE, the data stream including
4 dynamic watermarking data to provide identifying indicia for the ACE.

1 13. The method of claim 12 wherein the data stream further comprises a first portion
2 including adaptive instructions and configuration data and a second portion including data to
3 be processed.

1 14. The method of claim 13 wherein the data stream further comprises the dynamic
2 watermarking data as a third portion.

1 15. The method of claim 13 wherein the data stream further comprises the dynamic
2 watermarking data spread across the first and second portions.

1 16. The method of claim 12 wherein the data stream further comprises data for
2 configuring a hardware state machine within the ACE to extract and process the dynamic
3 watermarking data.

1 17. The method of claim 16 wherein the data stream further comprises data for
2 controlling access to the adaptive computing engine.

1 18. The method of claim 17 wherein the data stream further comprises data for
2 logging statistics of the adaptive computing engine.

1 19. The method of claim 18 wherein the data stream further comprises data for
2 performing events.

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1 20. The method of claim 19 wherein the data stream further comprises data for
2 determining a number of times access to the adaptive computing engine is allowed, tracking
3 a number of times the adaptive computing engine is accessed, and ending access with the
4 number of times has been exhausted.

1 21. The method of claim 12 wherein the ACE further comprises a controller, one or
2 more reconfigurable matrices, a matrix interconnection network, and a memory.

1 22. A method for digital watermarking, the method comprising:
2 providing dynamic watermarking data within a data stream;
3 marking a combination of computational elements, configured by data within the
4 data stream, with the dynamic watermarking data; and
5 marking one or more algorithms, included in the data stream and to be performed by
6 the combination of computational elements, with the dynamic watermarking data.

1 23. The method of claim 22 wherein providing further comprises adding the
2 dynamic watermarking when the data stream is created by a compiler.

1 24. The method of claim 22 wherein providing further comprises adding the
2 dynamic watermarking data when the data stream is received in memory.

1 25. The method of claim 22 wherein providing further comprises adding the
2 dynamic watermarking data while the data stream is transported from memory to an adaptive

3 computing engine formed by the combination of computational elements and the one or
4 more algorithms.

1 26. The method of claim 22 wherein providing further comprises adding the
2 dynamic watermarking data when the data stream is executing as an adaptive computing
3 engine.